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IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

## PATENT APPLICATION

INVENTOR(S)      Zhigang Hu  
                         Stefanos Kaxiras  
                         Margaret Martonosi

CASE                      1-8-1

TITLE                      Method and Apparatus for Reducing Leakage Power  
                         in a Cache Memory Using Adaptive Time-Based Decay

ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

SIR:

Enclosed are the following papers relating to the above-named application for patent:

Specification  
6 Sheets of informal drawing(s)

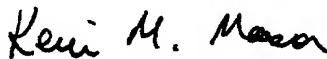
| CLAIMS AS FILED                            |           |           |          |              |
|--|-----------|-----------|----------|--------------|
|  | NO. FILED | NO. EXTRA | RATE     | CALCULATIONS |
| Total Claims                               | 28 -20 =  | 8         | X \$18 = | \$144        |
| Independent Claims                         | 3 - 3 =   | 0         | X \$84 = | \$0          |
| Multiple Dependent Claim(s), if applicable |           |           | \$280 =  | \$0          |
| Basic Fee                                  |           |           |          | \$740        |
| TOTAL FEE:                                 |           |           |          | \$884        |

Enclosed please find a check in the amount of \$884, to cover the filing fee. In the event of non-payment or improper payment of a required fee, the Commissioner is authorized to charge or to credit **Deposit Account No. 50-0762** as required to correct the error. A duplicate copy of this letter is enclosed.

The Assistant Commissioner for Patents is hereby authorized to treat any concurrent or future reply, requiring a petition for extension of time under CFR §1.136 for its timely submission, as incorporating a petition for extension of time for the appropriate length of time if not submitted with the reply.

Please address all correspondence to: **Ryan, Mason & Lewis, LLP, 1300 Post Road, Suite 205, Fairfield, CT 06430.** Telephone calls should be made to the undersigned attorney at (203) 255-6560.

Respectfully,



Kevin M. Mason  
Reg. No. 36,597  
Attorney for Applicants

Date: January 30, 2002  
**Ryan, Mason & Lewis, LLP**  
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**Fairfield, CT 06430**

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I hereby certify that this paper is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated below and is addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231

Date: January 30, 2002

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